



OECD approval number

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Full Code

10/04/2002

Make

Tafe

Model

45 DI

Type

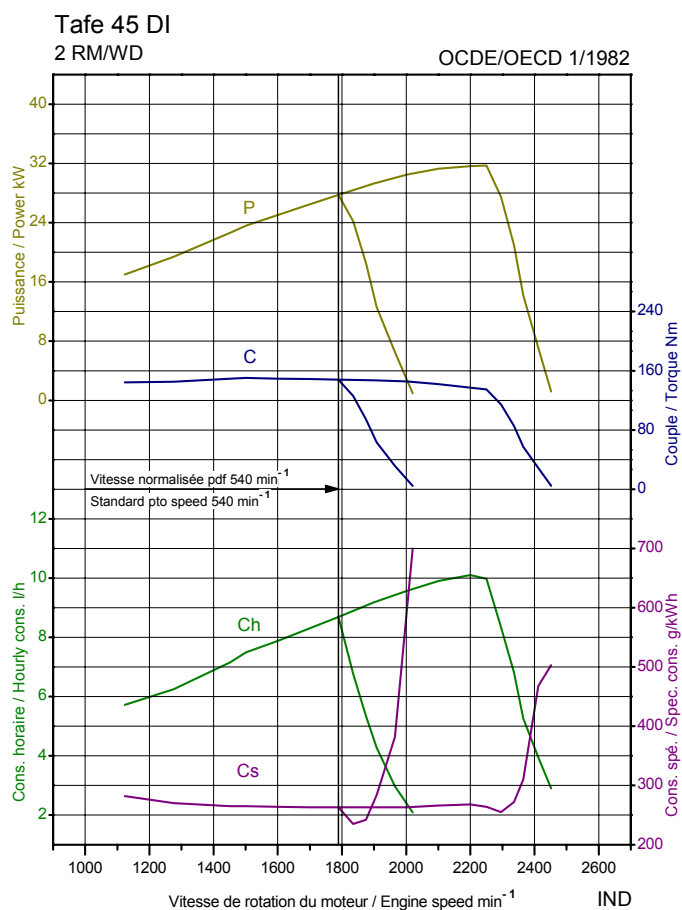
2 WD

Manufacturer: M/s Tractors and Farm Equipment Ltd.

CHENNAI

Testing station:

Central Farm Machinery  
Training and Testing Institute, Budni, India



**Engine, Transmission, Power take-off Specifications**

|                                                   |                             |                              |
|---------------------------------------------------|-----------------------------|------------------------------|
| <i>Make, Model</i>                                | Simpsons                    | S 325                        |
| <i>Type, Supercharging</i>                        | Direct injection            | None                         |
| <i>Cylinders, Disposition</i>                     | 3                           | vertical in line             |
| <i>Capacity, Cooling</i>                          | 2500 cm <sup>3</sup>        | Liquid                       |
| <i>Gear box</i>                                   |                             | Mechanical                   |
| <i>Number of forward and reverse speeds</i>       | 8                           | 2                            |
| <i>Speed at rated engine speed</i>                | from 2.58                   | to 27.68 km/h                |
| <u>Standard Power take-off speed</u>              | <u>540 min<sup>-1</sup></u> | <u>1000 min<sup>-1</sup></u> |
| <i>Power take-off speed at rated engine speed</i> | 679 min <sup>-1</sup>       | None                         |
| <i>Diameter of the shaft</i>                      | 34.77 mm                    |                              |
| <i>Number of splines</i>                          | 6                           |                              |

**Power take-off Test**Two hours test at maximum power

|                                               |         |                        |                       |
|-----------------------------------------------|---------|------------------------|-----------------------|
| <i>Power, Engine and Power take-off speed</i> | 31.7 kW | 2250 min <sup>-1</sup> | 679 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 9.98 l/h               | 264 g/kWh             |

Test at maximum power at rated engine speed

|                                               |         |                        |                       |
|-----------------------------------------------|---------|------------------------|-----------------------|
| <i>Power, Engine and Power take-off speed</i> | 31.7 kW | 2250 min <sup>-1</sup> | 679 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 9.98 l/h               | 264 g/kWh             |

Test at standard Power take-off speed

|                                               |         |                        |                       |
|-----------------------------------------------|---------|------------------------|-----------------------|
| <i>Power, Engine and Power take-off speed</i> | 27.8 kW | 1790 min <sup>-1</sup> | 540 min <sup>-1</sup> |
| <i>Hourly and specific consumption</i>        |         | 8.69 l/h               | 263 g/kWh             |

Torque rise

|                                                   |  |          |                        |
|---------------------------------------------------|--|----------|------------------------|
| <i>Maximum torque, Engine speed corresponding</i> |  | 150.3 Nm | 1501 min <sup>-1</sup> |
|---------------------------------------------------|--|----------|------------------------|

**Drawbar Test**

|                                |                    |                  |
|--------------------------------|--------------------|------------------|
| <i>Front tyres, Rear tyres</i> | 6.00 - 16          | 13.6 - 28        |
| <u>Test with tractor</u>       | <u>unballasted</u> | <u>ballasted</u> |
| <i>Total Mass</i>              | 1710 kg            | 2940 kg          |
| <i>Maximum drawbar pull</i>    | 12.5 kN            | 21.8 kN          |
| <i>at speed of</i>             | 2.43 km/h          | 2.35 km/h        |
| <i>Maximum power</i>           | 26.1 kW            | 27.4 kW          |
| <i>at speed of</i>             | 14.59 km/h         | 14.88 km/h       |

**Power Lift and Hydraulic Performance Test**

|                                                        |            |                 |
|--------------------------------------------------------|------------|-----------------|
| <i>Hydraulic system</i>                                |            | Opened centre   |
| <i>Maximum lifting force at hitch points, at frame</i> | 13.1 kN    | 12.5 kN         |
| <u>At maximum hydraulic power</u>                      |            |                 |
| <i>Flow rate, Pressure, Power</i>                      | 18.4 l/min | 18.0 MPa 5.5 kW |